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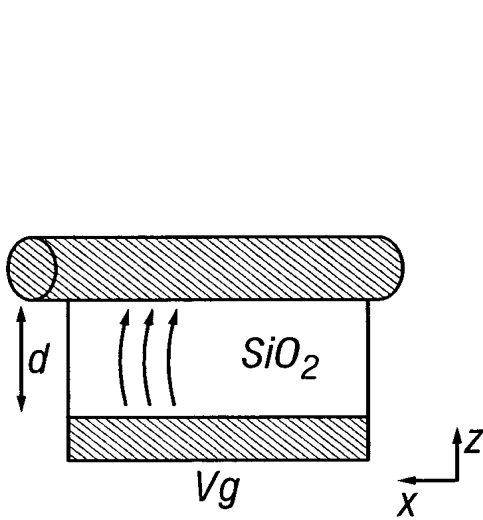


FIG. 1a

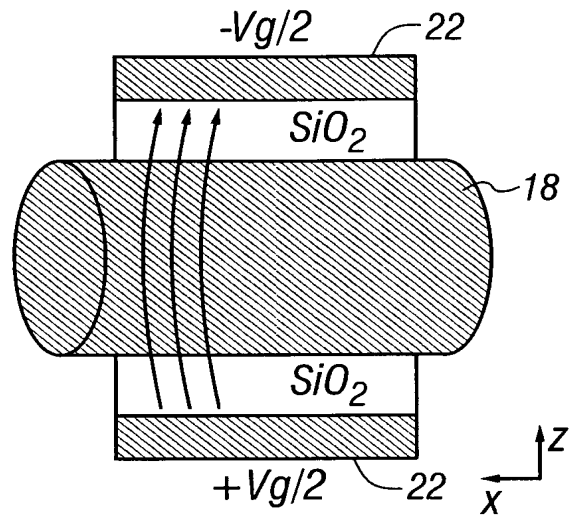


FIG. 1b

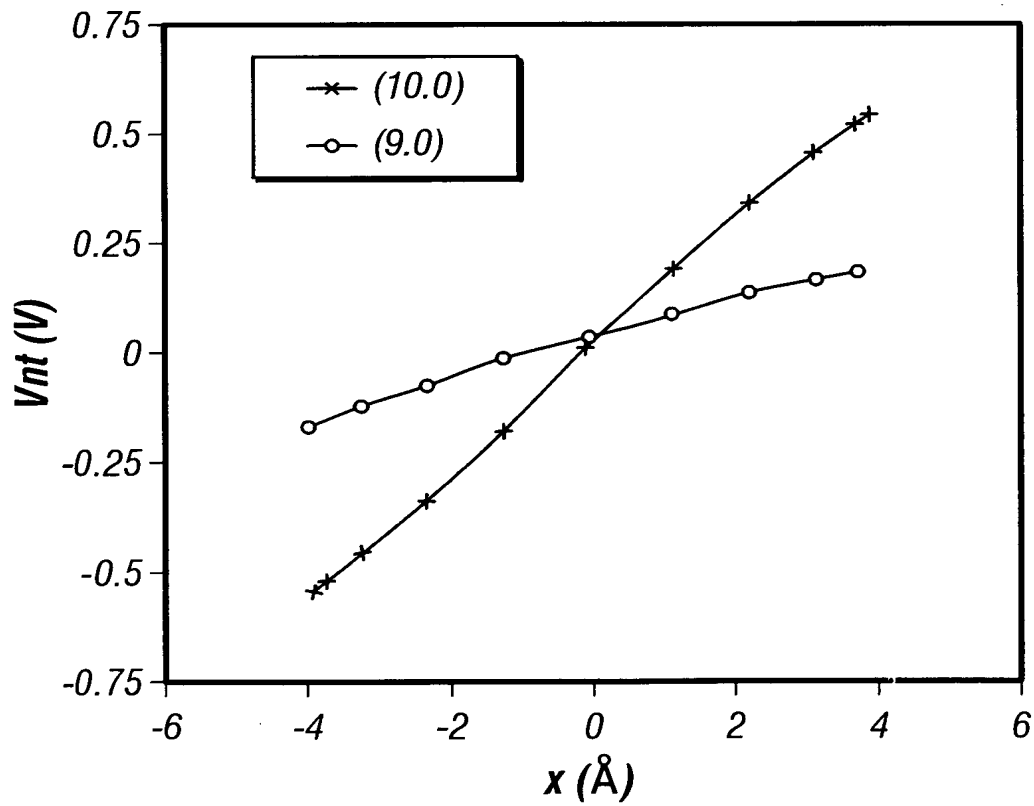


FIG. 2

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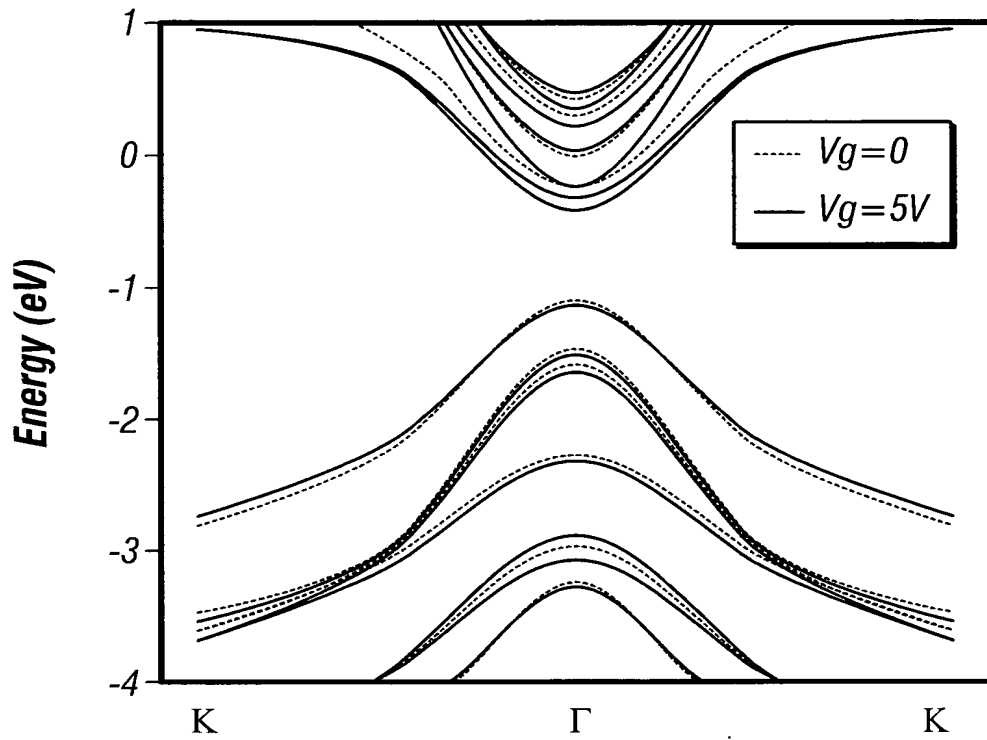


FIG. 3a

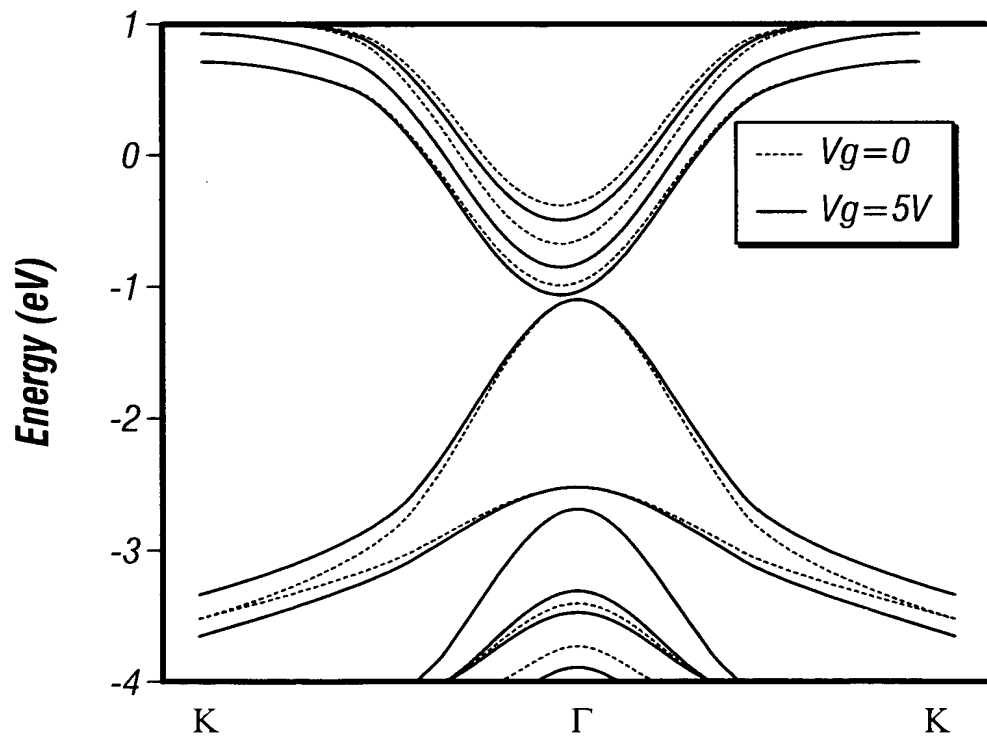


FIG. 3b

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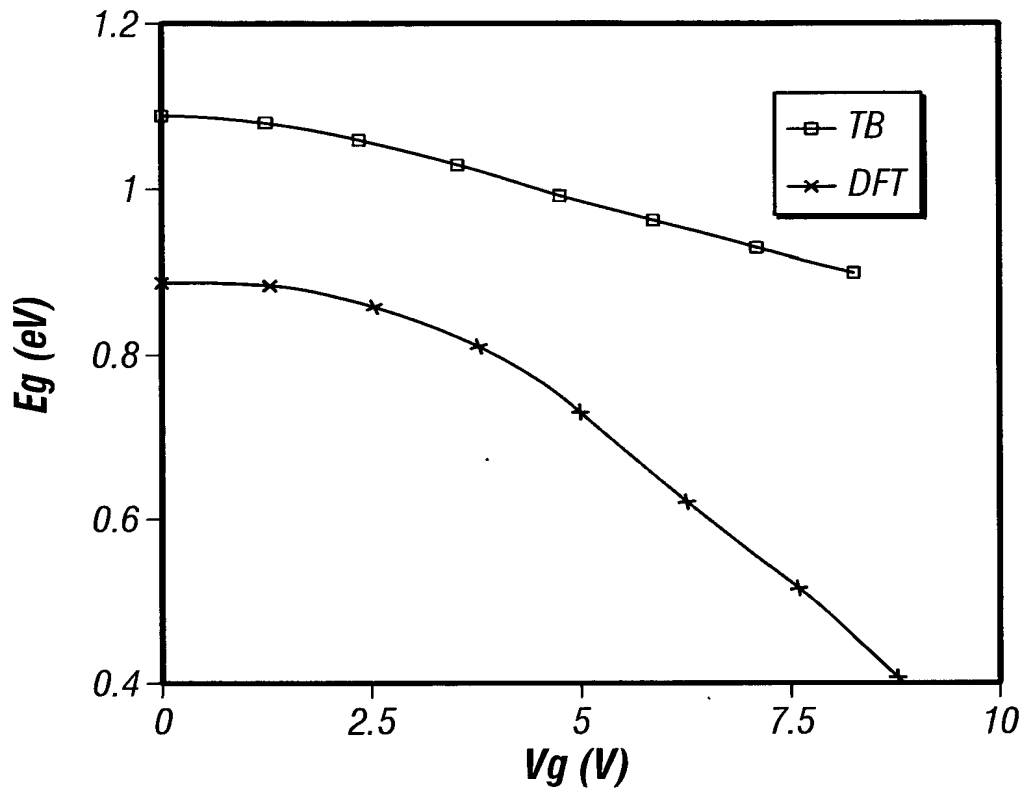
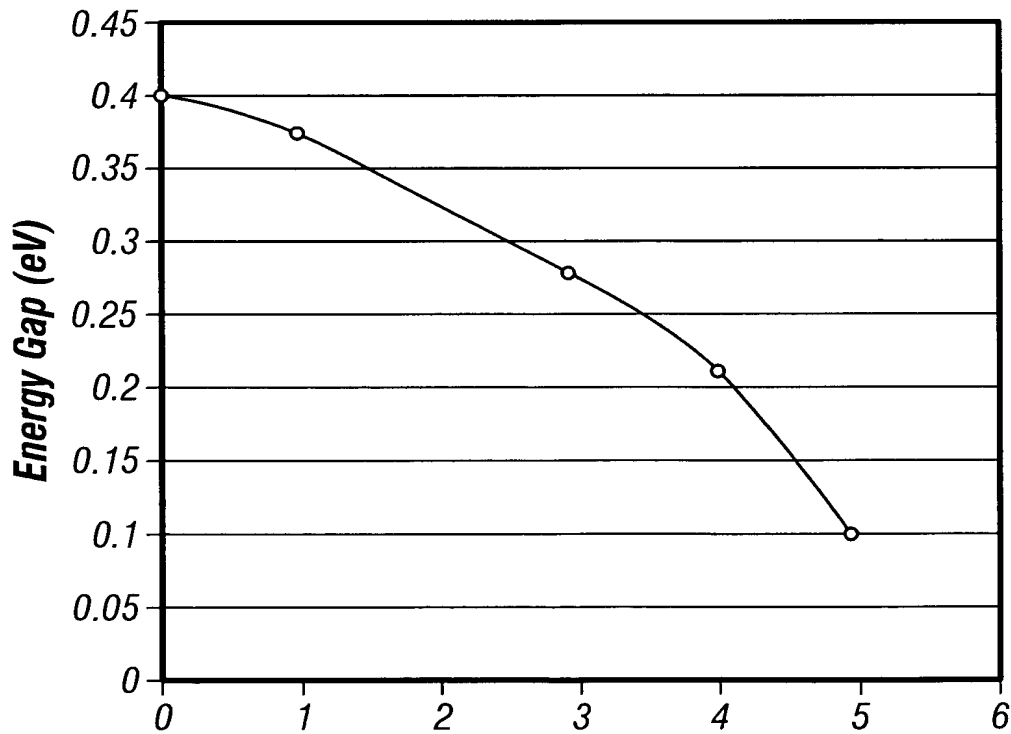


FIG. 4



Energy gap reduces from 0.4eV to 0.1eV
 V_g (Volts)

FIG. 5

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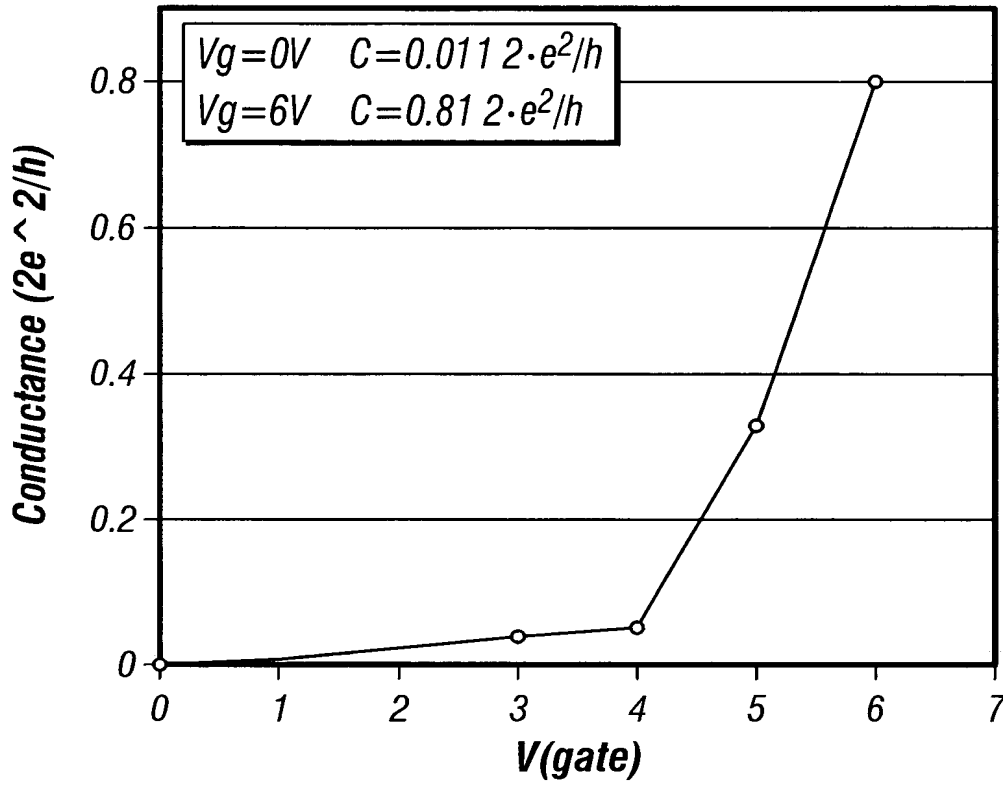


FIG. 6

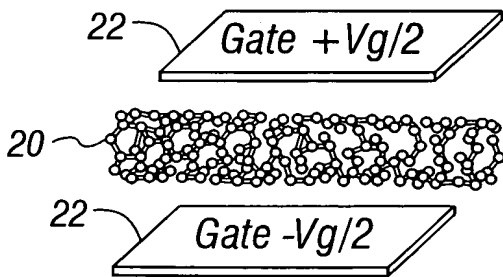


FIG. 7a

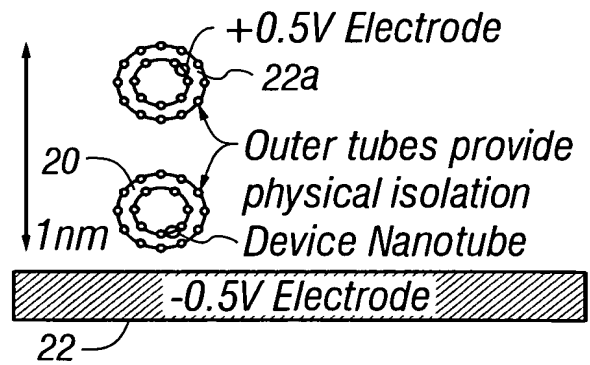


FIG. 7b

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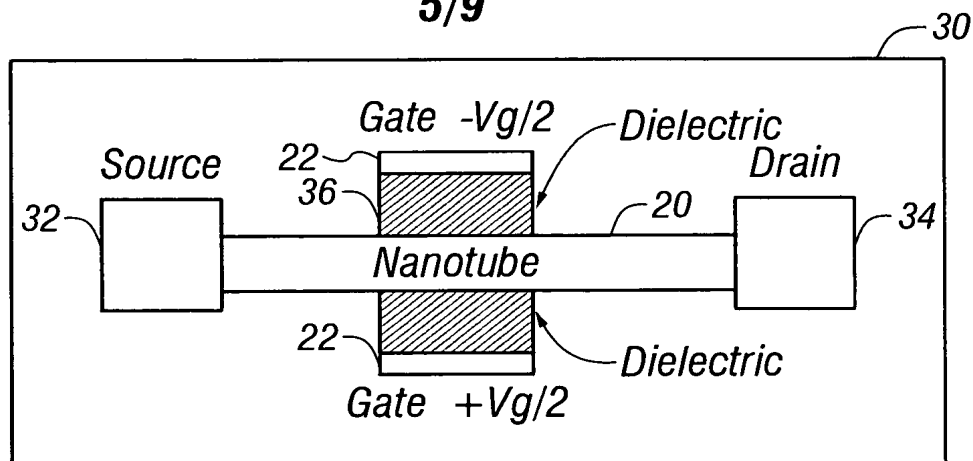


FIG. 8

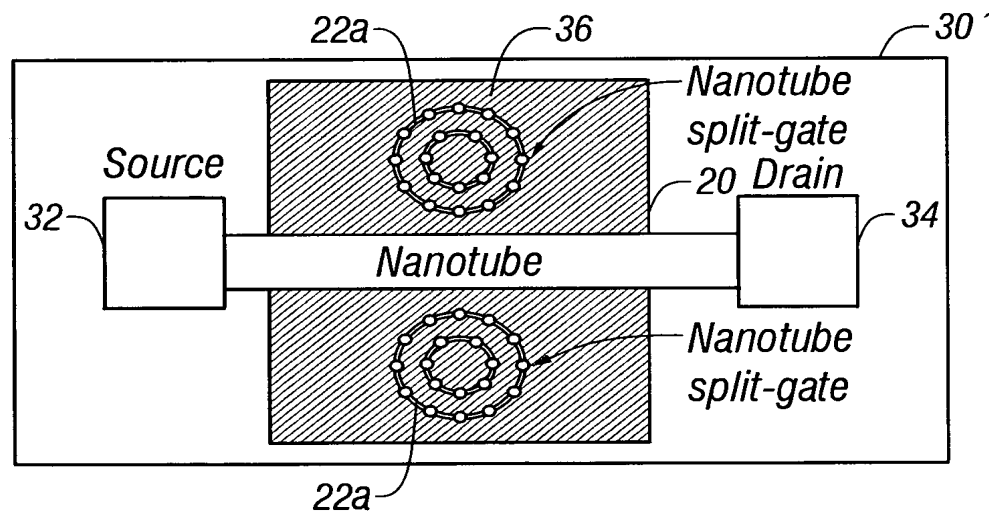


FIG. 9a

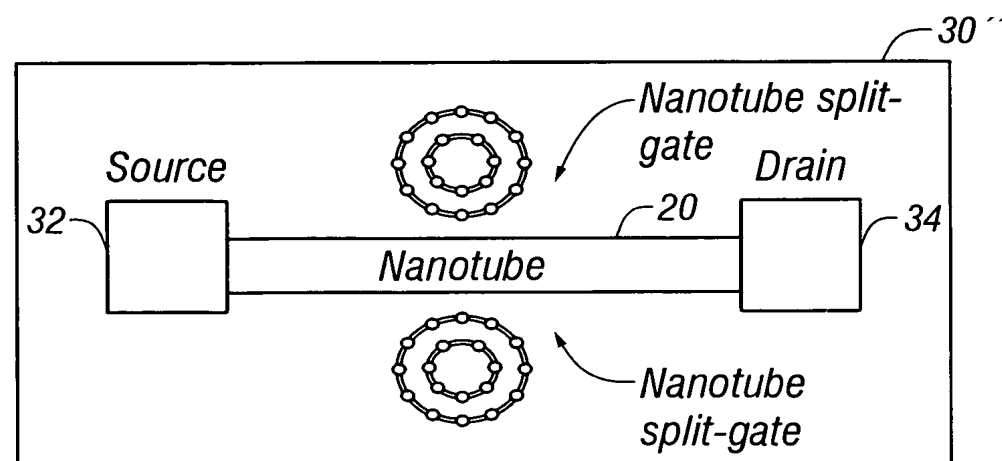


FIG. 9b

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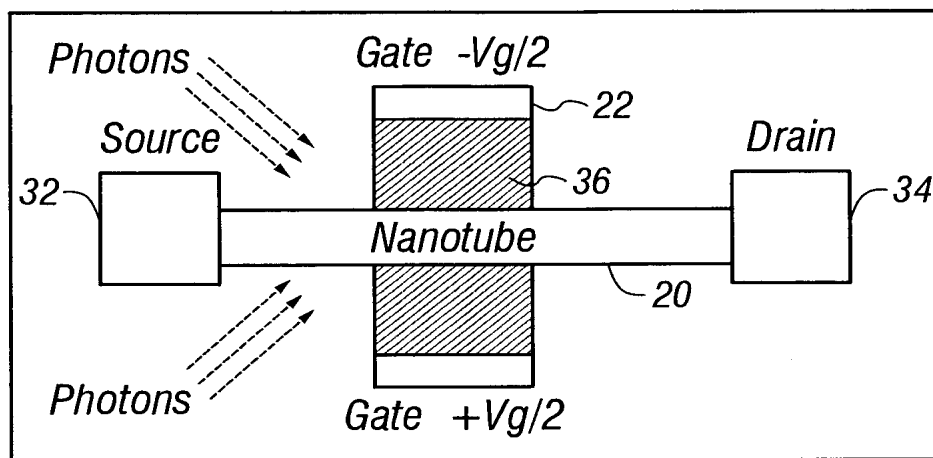


FIG. 10a

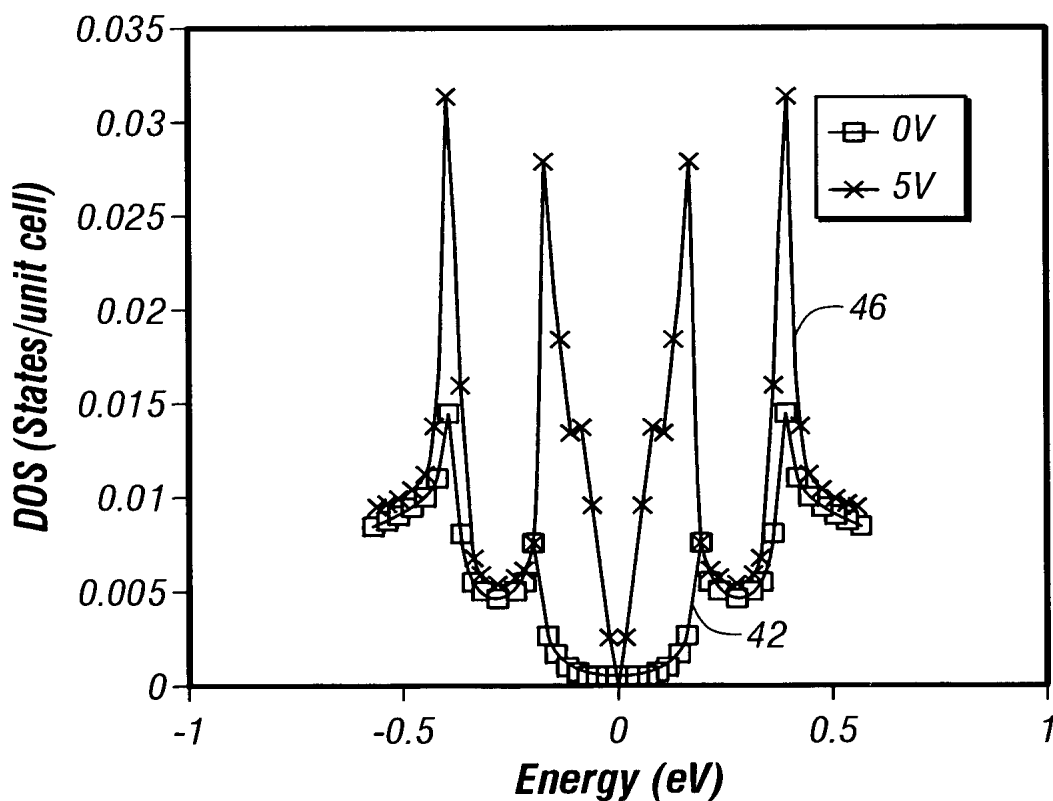


FIG. 10b

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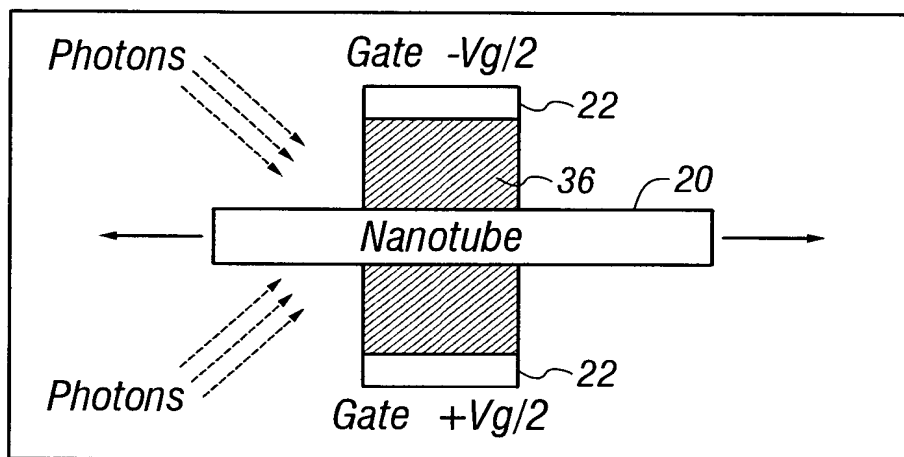


FIG. 11

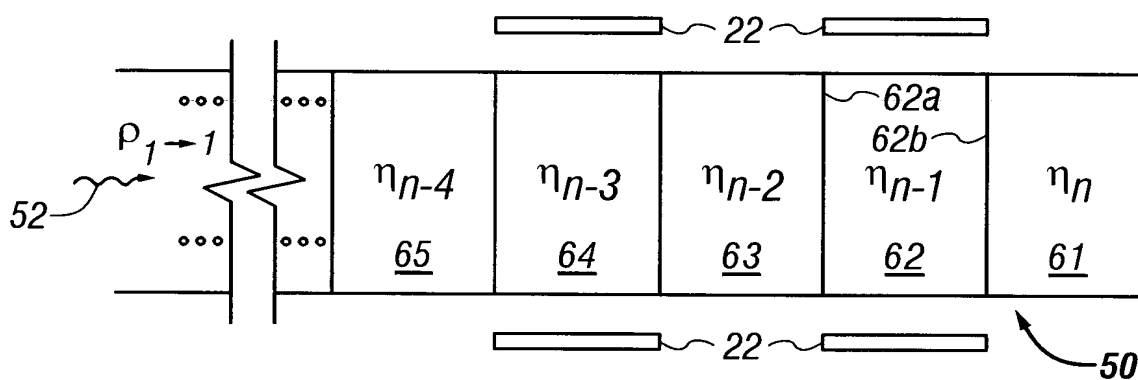


FIG. 12

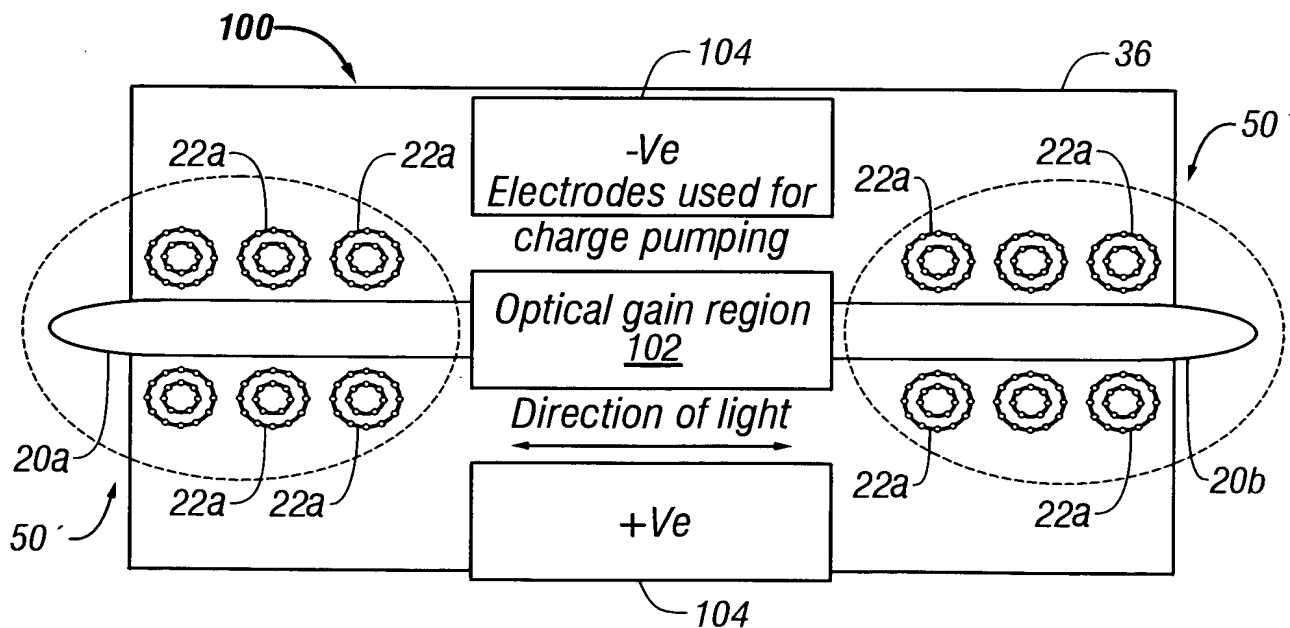
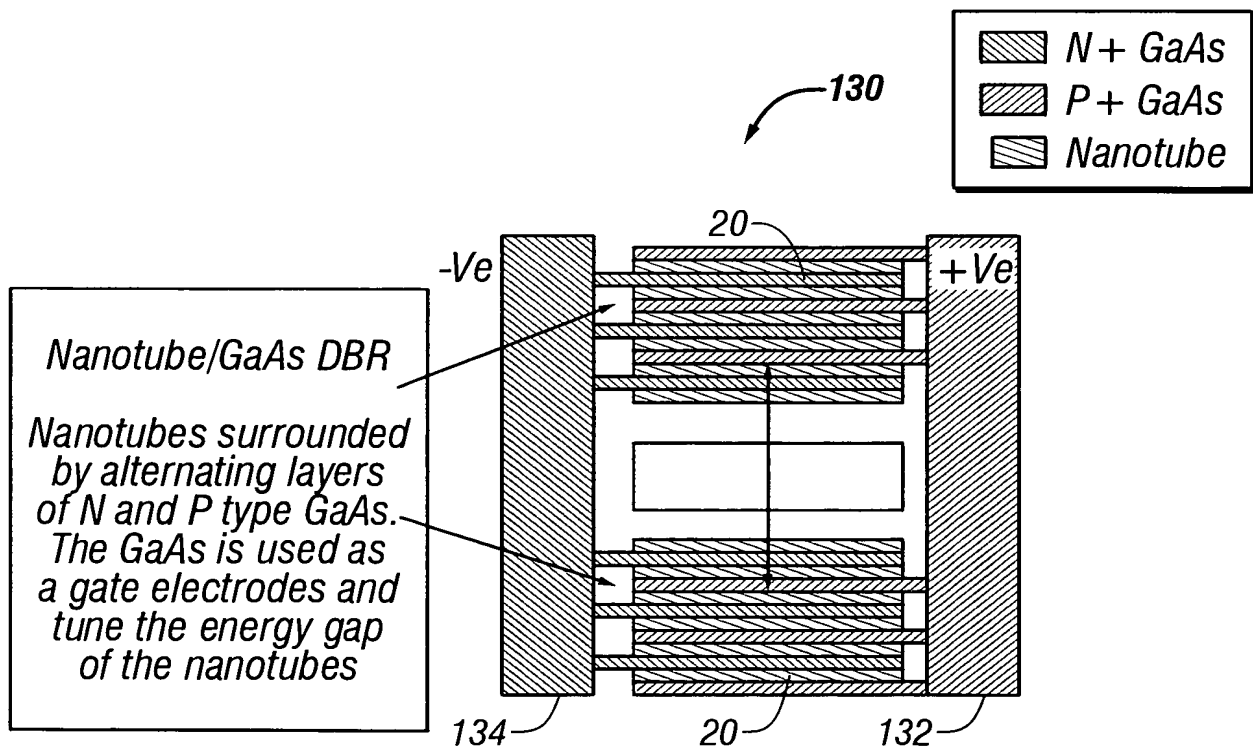
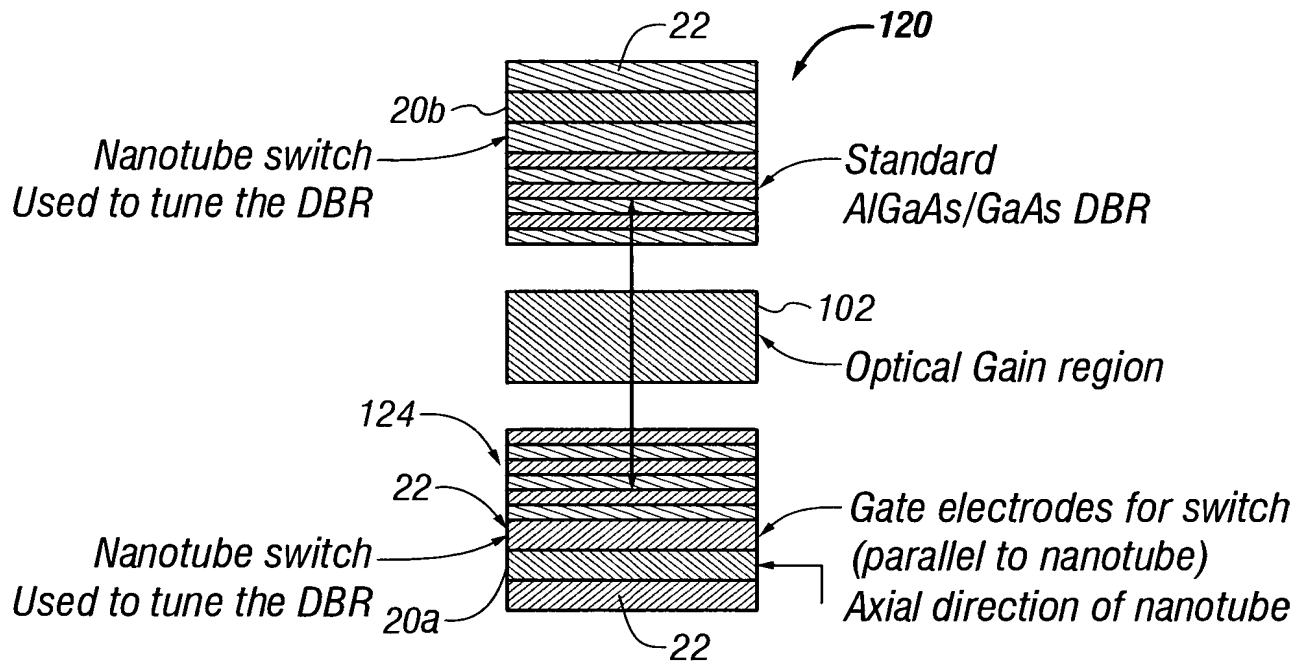


FIG. 13

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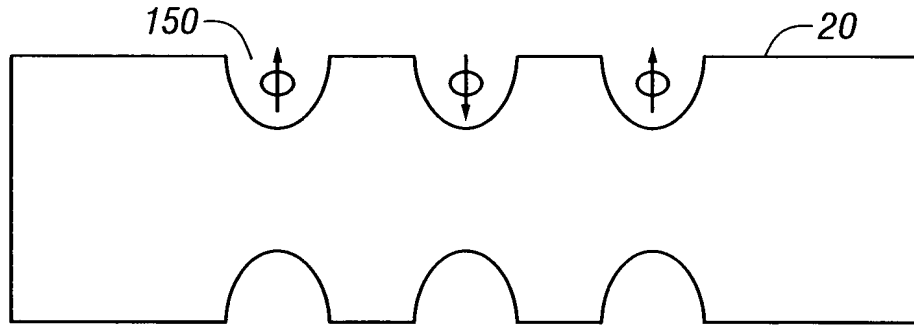


FIG. 15a

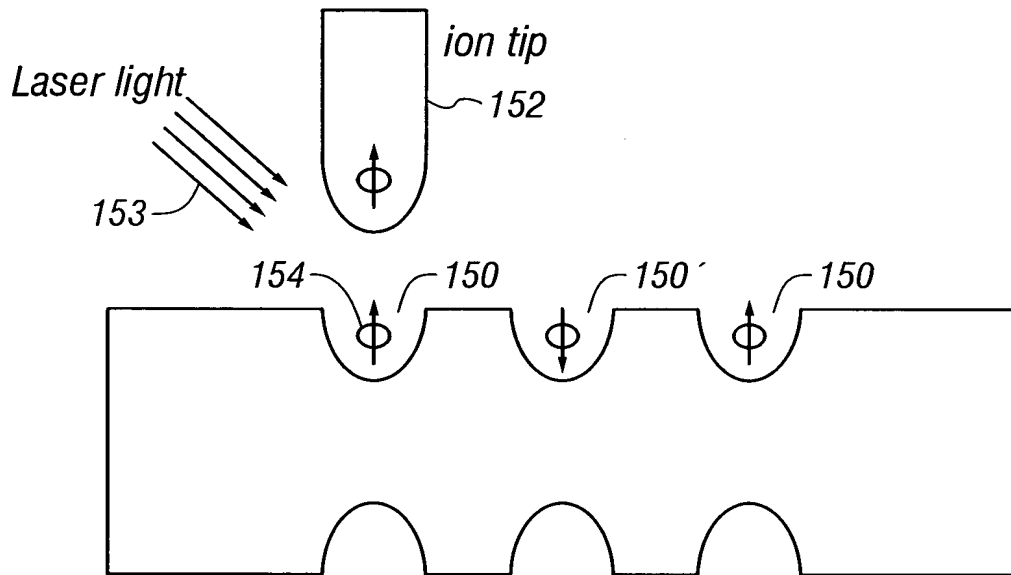


FIG. 15b

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